Amendments to the claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of claims

- 1. (Canceled)
- 2. (Currently amended) A polyamide <u>acid</u> resin (A) containing an unsaturated group obtained by reacting an unsaturated group-containing polyester resin (a) having a terminal anhydride group, which is obtained by reacting a polyol compound (c) containing an unsaturated group and a tetrabasic acid dianhydride (d), and a compound (b) having two amino groups in a molecule.
- 3. (Original) The polyamide acid resin (A) containing an unsaturated group according to claim 2, wherein a polyol compound (c) containing an unsaturated group is a compound obtained by reacting a compound (e) having at least two glycidyl groups in a molecule with a monocarboxylic acid (f) having an ethylenic unsaturated group in a molecule.
- 4. (Previously presented) The polyamide acid resin (A) containing an unsaturated group according to claim 3, wherein a compound (e) having at least two glycidyl groups in a molecule is (1) a bisphenol-type epoxy resin, (2) a straight chain or cyclic (C2 to C10) aliphatic polyvalent

glycidyl ether, provided that the number of a glycidyl group is 2 to 5, and the number of carbon atoms in the case of a cyclic ether is at least 3, (3) a polysulfide type diglycidyl ether, or (4) a biphenol-type diepoxy compound, and in addition, a monocarboxylic acid (f) having an ethylenic unsaturated group in a molecule is a (C3 to C6) aliphatic monocarboxylic acid containing an ethylenic unsaturated group which may be substituted with a phenyl group.

- 5. (Original) The polyamide acid resin (A) containing an unsaturated group according to claim 3, wherein a compound (e) having at least two glycidyl groups in a molecule is a compound selected from a group of a phenyl diglycidyl ether compound, a bisphenol-type diepoxy compound, a hydrogenated bisphenol-type diepoxy compound, a halogenated bisphenol-type diepoxy compound, an alicyclic diepoxy compound, an aliphatic diglycidyl ether compound, a polysulfide-type diglycidyl ether compound and a biphenol-type diepoxy compound.
- 6. (Original) The polyamide acid resin (A) containing an unsaturated group according to claim 4—or claim 5, wherein a monocarboxylic acid (f) having an ethylenic unsaturated group in a molecule is (meth)acrylic acid or cinnamic acid.

- (Currently amended) The polyamide acid resin (A) 7. containing an unsaturated group according to any one of claims 2 to 6 claim 3, wherein a tetrabasic acid dianhydride (d) is a tetrabasic acid dianhydride selected group consisting of pyromellitic dianhydride, ethylene glycol-bis(anhydrotrimellitate), glycerin bis(anhydrotrimellitate) monoacetate, 1,2,3,4-3,3'4,4'butanetetracarboxylic dianhydride, diphenylsulfonetetracarboxylic dianhydride, 3,3'4,4'benzophenonetetracarboxylic dianhydride, 3,3'4,4'-3,3'4,4'biphenyltetracarboxylic dianhydride, diphenylethertetracarboxylic dianhydride, 2,2-bis(3,4anhydrodicarboxyphenyl)propane, 2,2-bis(3,4-5-(2,5anhydrodicarboxyphenylhexafluoropropane, dioxotetrahydro-3-furanyl)-3-methylcyclohexene-1,2-3a, 4, 5, 9b-tetrahydro-5dicarboxylic anhydride, and (tetrahydro-2, 4-dioxo-3-furanyl)-naphtho[1,2-c]fur- an-1,3dione.
- 8. (Currently amended) The polyamide acid resin (A) containing an unsaturated group according to any one of claims 2 to 7 claim 3, wherein a compound (b) having two amino groups in a molecule is a compound selected from a group consisting of 4,4-diaminodiphenylmethane, 3,4'-diaminodiphenylmether, 3,4'-

diaminodiphenylether, 4,4'-diaminodiphenylsulfone, 3,4'-diaminodiphenylsulfone, 4,4'-diaminobenzophenone, and 3,4'-diaminobenzophenone.

- 9. (Currently amended) The polyamide acid resin (A) containing an unsaturated group according to any one of claims 2 to 6 claim 3, wherein equivalent of an ethylenic unsaturated group of a polyamide acid resin (A) containing an unsaturated group is 300 to 2,000 g/equivalent.
- 10. (Currently a mended) The polyamide acid resin (A) containing an unsaturated group according to any one of claims 2 to 8 claim 3, wherein equivalent of a carboxyl group of a polyamide acid resin (A) containing group 1,500 g/equivalent. unsaturated is 200 to 11. (Currently amended) A method for producing a polyamide acid resin (A) containing an unsaturated group according to any one of claims 2 to 10 claim 3, characterized by reacting a polyol compound (c) containing an unsaturated group, which is a reaction product of a compound (e) having least two glycidyl groups in a molecule and a at monocarboxylic acid (f) having an ethylenic unsaturated group in a molecule, and a tetrabasic acid dianhydride (d) to yield an unsaturated group-containing polyester resin (a) having a terminal anhydride group, which is then

reacted with a compound (b) having two amino groups in a molecule.

- 12. (Original) The method for producing the polyamide acid resin (A) containing an unsaturated group according to claim 11, wherein a compound (e) having at least two glycidyl groups in a molecule is a bisphenol-type diepoxy compound, а biphenol-type diepoxy compound; or monocarboxylic acid (f) having an ethylenic unsaturated group in molecule is acrylic acid; a tetrabasic acid dianhydride (d) is pyromellitic dianhydride or 3,3',4,4'benzophenone tetracarboxylic dihydride; and a compound (b) is 3,4'having two amino groups in a molecule diaminodiphenyl ether.
- 13. (Currently amended) A photosensitive resin composition characterized by containing the polyamide acid resin (A) containing an unsaturated group according to any one of claims 2 to $\frac{12}{4}$, a crosslinker (B) and a photopolymerization initiator (C).
- 14. (Currently amended) The photosensitive resin composition characterized by containing the polyamide acid resin (A) containing an unsaturated group according to any of claims $\frac{12}{4}$, a crosslinker (B), one 2 to photopolymerization initiator (C), and a component (D) to be cured.

- 15. (Currently amended) A cured product of the photosensitive resin composition according to claim $\frac{13 \text{ or}}{\text{claim}}$
- 16. (Original) A substrate having a layer of the cured product according to claim 15.
- 17. (Original) An article having the substrate according to claim 16.
- (New) The polyamide acid resin (A) containing 18. unsaturated group according to Claim 4, wherein a compound (e) having at least two glycidyl groups in a molecule is a compound selected from a group of a phenyl diglycidyl ether compound, a bisphenol-type diepoxy compound, a hydrogenated bisphenol-type diepoxy compound, a halogenated bisphenoltype diepoxy compound, an alicyclic diepoxy compound, an aliphatic diglycidyl ether compound, a polysulfide-type diglycidyl ether compound and a biphenol-type diepoxy compound, a monocarboxylic acid (f) having an ethylenic unsaturated group in a molecule is (meth)acrylic acid or cinnamic acid, a tetrabasic acid dianhydride (d) dianhydride selected from acid group tetrabasic consisting of pyromellitic dianhydride, ethylene glycolbis(anhydrotrimellitate), glycerin bis(anhydromonoacetate, 1,2,3,4-butanetetracarboxylic trimellitate) 3,3',4,4'-diphenylsulfonetetracarboxylic dianhydride,

3,3',4,4'-benzophenonetetracarboxylic dianhydride, dianhydride, 3,3',4,4'-biphenyltetracarboxylic dianhydride, 3,3',4,4'-diphenylethertetracarboxylic dianhydride, 2,2bis(3,4-anhydrodicarboxyphenyl)propane, 2,2-bis(3,4anhydrodicarboxyphenyl)hexafluoropropane, 5-(2,5-dioxotetrahydro-3-furanyl)-3-methylcyclohexene-1,2-dicarboxylic anhydride, 3a, 4, 5, 9b-tetrahydro-5-(tetrahydro-2, 4and dioxo-3-furanyl)-naphtho[1,2-c]furan-1,3-dione, compound (b) having two amino groups in a molecule is a compound selected from a group consisting of 4,4'-diaminodiphenylmethane, 3,4'-diaminodiphenylmethane, 4,4'-diaminodiphenylether, 3,4'-diaminodiphenylether, 4,4'-diamino-3,4'-diaminodiphenylsulfone, diphenylsulfone, 4,4'diaminobenzophenone, and 3,4'-diaminobenzophenone.

•